

Abstract

In a device for applying a coating medium onto a substrate, having at least one spray valve (4) that has a nozzle opening (6) that can be adjusted with regard to its effective outlet area using a closing mechanism (7) that can be positioned by an allocated positioning device, whereby the substrate can be moved past the spray valve, which can be supplied with the coating medium under pressure via a supply line (11), a high degree of precision can be achieved at a low maintenance expense in that the closing mechanism (7) can be adjusted continuously within a prespecified adjustment field using the assigned positioning device (8), whereby the positioning device (8) is assigned a regulator (16) that has at least one target value input (17) for the instantaneously required outflow rate of the coating medium from the spray valve (4) and at least one actual value input (18) for the mass flow rate through a supply section arranged in front of the nozzle opening (6), and from the deviation between these values, the regulator forms an adjustment signal that moves the positioning device (8) in the direction to offset the deviation.

(Figure 2)